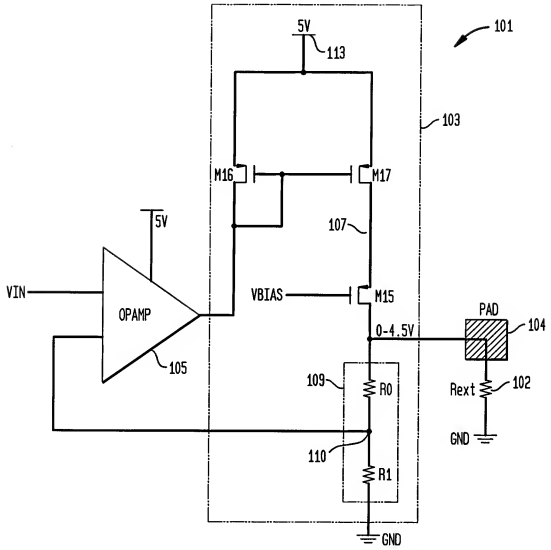
FIG. 1
(PRIOR ART)



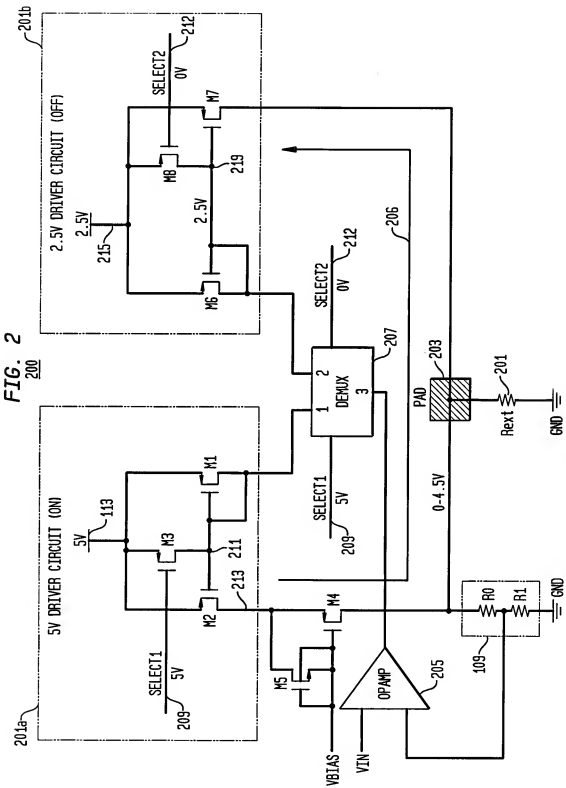

201b
2.5V DRIVER CIRCUIT (OFF)
SELECT2
0V
212
M7
M8
219
2.5V
2.5V
215
M6
206
SELECT2
0V
212
207
2
1
DEMUX
3
PAD
203
201
Rext
GND
201a
5V DRIVER CIRCUIT (ON)
5V
113
M1
M3
211
213
M2
SELECT1
5V
209
SELECT1
5V
203
0-4.5V
M4
M5
OPAMP
205
109
R0
R1
GND
VBIAS
VIN

FIG. 2
200

FIG. 3

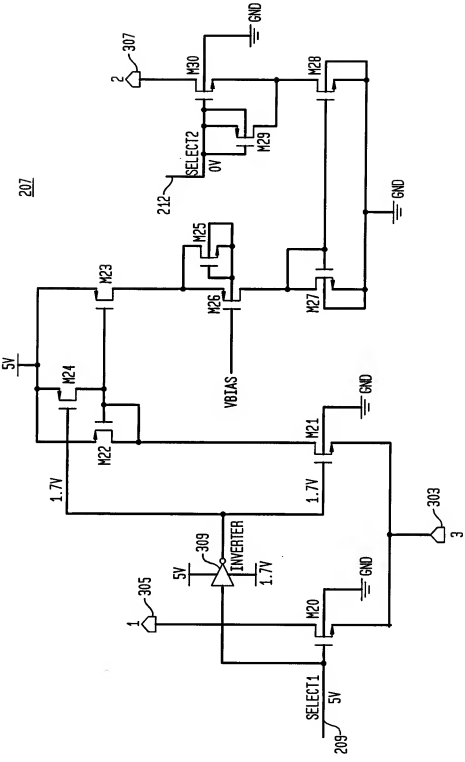
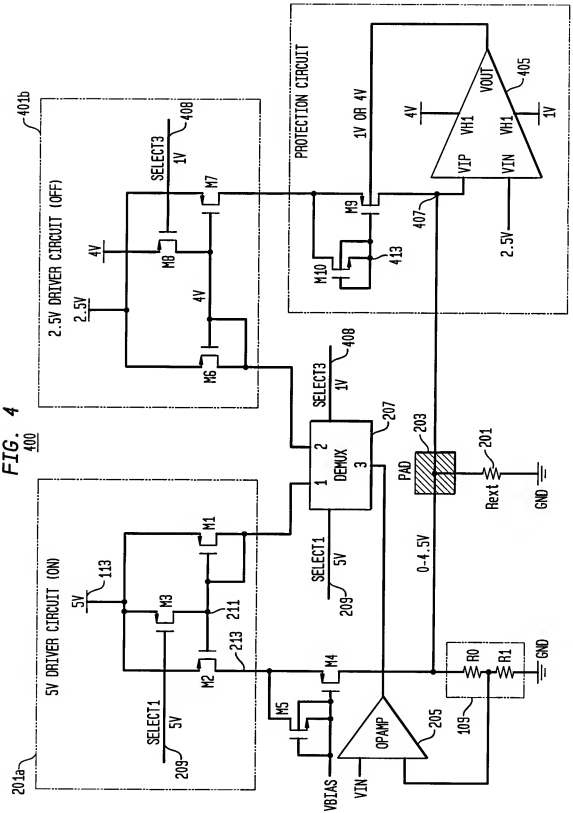

207
5V
M24
M22
1.7V
M23
M25
M26
VBIAS
M27
M28
GND
212
SELECT2
0V
M29
M30
2
307
1.7V
M21
GND
303
3
INVERTER
309
5V
1.7V
305
1
M20
GND
SELECT1
5V
209

FIG. 4
400


401b
2.5V DRIVER CIRCUIT (OFF)
2.5V
4V
SELECT3
1V
408
M8
M7
M6
PROTECTION CIRCUIT
1V OR 4V
M9
M10
413
407
4V
VOUT
405
VIP
VIH
VIN
VIL
1V
2.5V
201a
5V DRIVER CIRCUIT (ON)
5V
113
M3
M1
211
213
M2
SELECT1
5V
209
M5
M4
VBIAS
VIN
OPAMP
205
109
R0
R1
GND
SELECT3
1V
408
207
1
2
3
DEMUX
SELECT1
5V
209
PAD
203
0-4.5V
201
Rext
GND